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SNOW SURVEYS AND IRRIGATION WATER FORECASTS
FOR MISSOURI AND ARKANSAS RIVERS

May 1, 1938

The following data pertaining to snow surveys and irrigation water supply forecasts are provided by Bureau of Agricultural Engineering of the U. S. Department of Agriculture, in cooperation with State departments, other Federal bureaus and local organizations. The snow measurements are made principally by field personnel of the following organizations: Forest Service, National Park Service, Bureau of Reclamation, U. S. Geological Survey, War Department and State Experiment Stations. This work is otherwise conducted cooperatively with the State Engineers of Wyoming and Colorado, and various municipalities, irrigation associations, power companies and others. Precipitation records are supplied by the U. S. Weather Bureau.

Precipitation during April on the watershed of the Missouri and its tributaries in eastern Montana was 35 percent of normal. In the central part of the state it was 69 percent of normal. The accumulated average precipitation from October to April, inclusive, for the eastern division was 95 percent of normal and for the central division it was 89 percent of normal. On the east slope of the Rocky Mountains, in Wyoming, the April precipitation was 2.3 inches as an average for thirteen stations above 6,000 feet in elevation which was 0.4 inch above normal. The accumulated average precipitation, October to April, inclusive for this area in Wyoming was 8.7 inches or 0.8 inch above normal. On the watershed of the South Platte, in Colorado six stations averaged 2.9 inches which was 0.5 inch above normal. The accumulated average precipitation for five stations, above 6,000 feet in elevation over this area, October to April inclusive, was 8.5 inches or 1.4 inches above normal. The average precipitation for April as shown by seven stations 6,000 feet or more in elevation on the watershed of the Arkansas River, was 2.4 inches or 0.7 inch above normal. The average accumulated precipitation for the period, October to April inclusive, for these same stations was 7.9 inches which was 0.6 inch above normal.

Storage in Pathfinder and Guernsey reservoirs on the North Platte River watershed in Wyoming was approximately 6 percent greater than for May 1, 1937. Storage in the Shoshone Reservoir on the Bighorn River watershed is about 7 percent less than last year at this time and in Jackson Lake on the Snake River May 1st, there was 15 percent less than a year ago. For the South Platte watershed in Colorado the storage in twenty two reservoirs was 20 percent less on May 1st than last year at the same time. For six large reservoirs in the lower Platte valley the filling was 25 percent less than last year while for six reservoirs in the Cache la Poudre valley the storage was the same as last year on May 1. There is practically no water in storage in the irrigation reservoirs in the Arkansas Valley. In the mountain sections of the Arkansas River watershed, storage is about one-half that of last year.

Soil moisture conditions in the agricultural areas of the North Platte and Laramie river basins in Wyoming are good. The soil in the mountains is saturated and cool, cloudy weather has prevented loss by evaporation from the soil as well as from the snow cover. In local areas east of the Bighorn Mountains, soil moisture is reported as favorable, while for stock water ponds the supply is said to be deficient in places over this area. Soil moisture conditions over the agricultural area served by the Shoshone Reservoir is reported as poor. In the South Platte Valley in Colorado the soil moisture over the agricultural area is

good to excellent. In the Arkansas Valley, east of Pueblo, the soil moisture is poor to fair while for the Trinidad area it is said to be the best in ten years.

The average water content of the snow on the watersheds of the Yellowstone, Jefferson, Madison and Gallatin Rivers on May 1 for twenty courses was 6.8 inches. Comparisons are available on sixteen of these courses which show the water content to be 5 percent less on May 1 than last year at this time. Seven courses on the Missouri River between Helena and Great Falls show an average water content of 4.8 inches or 29 percent less than last year on May 1. On the Jefferson River watershed, six courses show an average of 10 percent less water content than last year. Three courses on the Madison River show 9 percent more and six courses on the Gallatin River show 23 percent less water content than on May 1, 1937. On the Shoshone, Bighorn, Tongue and Powder Rivers, the average water content for fourteen snow courses was 6.8 inches which is 15 percent less than that of a year ago.

On the watershed of the North Platte proper, the average water content of the snow on May 1 for eleven courses was 19.6 inches. The average of nine courses reported in 1937 and 1938 indicate that there is about 3 percent greater water content this year. Eight courses on the Laramie watershed show an average water content of 11.8 inches. Comparisons of six of these courses, May 1 record, indicate 19 percent more water this year. On the South Platte River seventeen courses show an average water content of 13.5 inches. Comparison with ten of these stations observed May 1, 1937 indicates a 72 percent greater water content this year. On the Cache la Poudre River, a tributary of the South Platte, the average of seven courses show a water content of 16.1 inches. Four of these courses were observed May 1, 1937 and comparisons indicate a 62 percent greater water content than a year ago. On the Arkansas River watershed the average water content for nine courses was 10.1 inches. Comparisons with eight of these courses observed in 1937 indicate twice as much water for 1938.

During April the snowfall in the mountain areas of the North Platte, Laramie, South Platte and Arkansas River basins was good. On North French Creek, a tributary to the North Platte, west side of the Snowy Range, in Wyoming, the water content of the snow increased 2.0 inches during the month. At Fox Park, on the Laramie, there was an increase of 1.5 inches. At the headwaters of Clear Creek, tributary to the South Platte, in Colorado, there was an increase of 5.4 inches. On Cameron Pass, headwaters of both the North Platte and Cache la Poudre, there was an increase of 4.9 inches. On the upper North Poudre drainage the increase was about 4 inches. At Blue Lakes, on a tributary to the Arkansas, the increase was nearly 2 inches. At Fremont Pass, headwaters of the Arkansas River, the increase was 2.4 inches. At Brooks Lake, in Wyoming, on the Bighorn drainage the increase in the water content over the month was 2.9 inches. These measurements refer to snow courses at elevations of 10,000 feet or more except Fox Park and Brooks Lake, which are 9,200.

The snow cover resulting from the heavy April storms over the high areas will sustain the runoff and result in an improved late water supply for irrigation.

MISSOURI AND ARKANSAS RIVERS

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Bureau of Agricultural Engineering, U. S. Dept. Agr.; Forest Service; Colo. Agri. Expt. Station
Issued May 10, 1938, Colo. Expt. Station, Fort Collins, Colo.

No.	Main Drainage and Snow Course	Local Drainage	State	Location		Elev.	National Forest	Snow Course Measurements					
				Locality	Description			Av. Snow Depth	Av. Water Content	1936	1937	1938	1938
								In.	In.	In.	In.	In.	In.
JEFFERSON RIVER													
6	Camp Creek*	Red Rock Cr.	Idaho	6mi. N. Spencer	21-13N-36E	6800	Targhee	---	---	---	---	---	---
7	East Fork R.S.*	Rock Cr.	Mont.	13mi. NE. Sula	16-2N-17W	5400	Bitterroot	---	---	---	---	---	---
9	Elkhorn Hot Spgs	Wise River	"	8mi. N. Polaris	15-4S-12W	8450	Beaverhead	---	---	---	---	---	---
7	Gibbons Pass	N. Fk. Big Hole	"	Gibbons Pass	4-2S-19W	7100	Bitterroot	---	---	---	---	---	---
26	Moose Creek*	N. Fk. Big Hole	Idaho	3mi. S. Gibbons P	27-2N-21E	6200	Salmon	---	---	---	---	---	---
31	Pipestone Pass	Pipestone Cr.	Mont.	Pipestone Pass	11-1N-7W	7200	Deer Lodge	---	---	---	---	---	---
	Storm Lake*	Seymour Cr.	Mont.	15mi. W. Anaconda	19-4N-13W	8135	Deer Lodge	---	---	---	---	---	---
MADISON RIVER													
	Hebgen Dam	Cabin Cr.	Mont.	Hebgen Dam	22-11S-3E	6550	Gallatin	---	---	---	---	---	---
	Twenty-one Mile*	Grayling Cr.	Mont.	8mi. S. Gallatin	1-11S-5E	7150	Yel. Nat. P.	---	---	---	---	---	---
15	West Yellowstone	South Fork	Mont.	W. Yellowstone	34-13S-5E	6700	Gallatin	---	---	---	---	---	---
GALLATIN RIVER													
	Devil's Slide	Hyalite Cr.	Mont.	20mi. S. Bozeman	14-5S-6E	8100	Gallatin	---	---	---	---	---	---
	Hood Meadow	Hyalite Cr.	"	14mi. S. Bozeman	22-4S-6E	6600	"	---	---	---	---	---	---
	Hood Meadow Extn	Hyalite Cr.	"	14mi. S. Bozeman	22-4S-6E	6600	"	---	---	---	---	---	---
	Mystic Lake No. 1	Bozeman Cr.	"	12mi. SE. Bozeman	31-3S-7E	6600	"	---	---	---	---	---	---
	Mystic Lake No. 2	Bozeman Cr.	"	12mi. SE. Bozeman	31-3S-7E	6600	"	---	---	---	---	---	---
	Twenty-One Mile	Gallatin R.	"	8mi. S. Gallatin	1-11S-5E	7150	Yel. Nat. P.	---	---	---	---	---	---
MISSOURI RIVER													
	(Helena-Great Falls)												
5	Chessman Reservr.	Ten Mile	Mont.	11mi. SW. Helena	2-8N-5W	6200	Helena	---	---	---	---	---	---
35	Tenmile Cr. Lower	"	"	17mi. SW. Helena	13-8N-6W	6250	"	---	---	---	---	---	---
36	Tenmile Cr. Middle	"	"	17mi. SW. Helena	13-8N-6W	6800	"	---	---	---	---	---	---
37	Tenmile Cr. Upper	"	"	17mi. SW. Helena	19-8N-5W	8000	"	---	---	---	---	---	---
30	Stemple Pass	Canyon Cr.	"	Stemple Pass	16-1N-7W	6900	"	---	---	---	---	---	---
	King's Hill	Belt Cr.	"	22mi. NW. Sul. Spgs	35-13N-7E	7950	Lewis & Clark	---	---	---	---	---	---
10	Goat Mountain	South Fork	"	26mi. S. Gilman	47-5N-12.9W	7000	"	---	---	---	---	---	---
MARIAS RIVER													
18	Marias Pass	Two Medicine	Mont.	Summit	48-3N-13.4W	5250	Glacier N.P.	---	---	---	---	---	---
YELLOWSTONE RIVER													
	Blacktail Deer Cr	Blk. Tail Deer	Wyo.	11mi. SE. Gardiner	44-9N-10.6W	7500	Yel. Nat. P.	---	---	---	---	---	---
	Beaver Dams	Blk. Tail Deer	"	11mi. SE. Gardiner	44-9N-10.6W	7200	"	---	---	---	---	---	---
	Lupine Creek	Lupine Cr.	"	11mi. SE. Gardiner	44-9N-10.6W	7300	"	---	---	---	---	---	---
	Lodgepole	Lodgepole Cr.	Wyo.	34mi. NW. Cody	32-56N-106W	8200	Shoshone	---	---	---	---	---	---

*On adjacent drainage or tributary to two drainages.

MISSOURI AND ARKANSAS RIVERS

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No.	Main Drainage and Snow Course	Local Drainage	State	Location		Elev.	National Forest	Snow Course Measurements					
				Locality	Description			Av. Snow	Snow Depth	Av. Water	Content	1937	1938
								1936	1937	1938		In.	In.
SHOSHONE RIVER													
19	Brooks Lake No. 2	Shoshone R.	Wyo.	Brooks Lake	23-44N-110W	9200	Washakie	49.5	61.8	50.6	27.6	19.8	25.1
33	Up. Hardpan Basin	Hardpan Cr.	"	27 mi. SW. Cody	25-51N-106W	9500	Shoshone	---	45.7	34.1	---	12.3	9.5
32	Sylvan Pass	Middle Cr.	"	Sylvan Pass	12-52N-110W	7100	Yel. Nat. P.	---	33.5	24.8	---	11.0	9.2
BIGHORN RIVER													
19	Brooks Lake No. 2	Wind River	"	Brooks Lake	23-44N-110W	9200	Washakie	49.5	61.8	50.6	27.6	19.8	25.4
16	Ranger Creek	Ranger Cr.	"	14 mi. E. Shell	32-53N-88W	8800	Bighorn	24.0	30.4	16.6	8.0	8.3	6.8
22	Roaring Fork	Roaring Fk.	"	16 mi. SW. Lander	7-31N-101W	10200	Washakie	22.0	27.6	19.8	7.4	7.8	8.2
15	Shell Creek R.S.	Shell Creek	"	13 mi. E. Shell	19-53N-88W	7700	Bighorn	0.0	10.8	0.0	0.0	3.4	0.0
20	Sheridan Cr. R.S.	Sheridan Cr.	"	16 mi. NW. Dubois	3-42N-109W	7500	Washakie	2.6	8.0	0.0	1.4	3.3	0.0
21	Whorton Meadow	Roaring Fk.	"	16 mi. SW. Lander	18-31N-101W	9200	"	17.0	14.0	6.7	4.5	4.0	2.5
13	Tensleep R.S.	Tensleep Cr.	"	15 mi. NE. Tensleep	30-49N-86W	8300	Bighorn	0.0	25.3	10.4	0.0	7.0	3.4
18	Dunrude Dude Ranch	Wood River	"	11 mi. SW. Sunshine	21-46N-103W	8000	Shoshone	0.0	0.0	0.0	0.0	0.0	0.0
TONGUE RIVER													
17	Big Goose Cr. R.S.	E. Goose Cr.	"	20 mi. SW. Sheridan	4-53N-86W	7700	Bighorn	0.0	9.8	0.0	0.0	3.6	0.0
POWDER RIVER													
30	Red Fork	Middle Fk.	"	23 mi. W. Kaycee	18-43N-85W	7500	Off Forest	---	18.8	10.4	---	5.8	2.7
31	Sour Dough	Sour Dough Cr.	"	10 mi. W. Klondike	17-49N-84W	8500	Bighorn	---	28.7	13.4	---	6.8	2.8
NO. PLATTE RIVER													
51	Big Creek Lake	Big Creek	Colo.	5 mi. SW. Pearl	9-11N-82W	9000	Routt	---	---	20.2	---	---	7.3
7	Bottle Creek	Encampment Cr.	Wyo.	7 mi. SW. Encampment	24-14N-85W	8200	Medicine Bow	25.1	41.7	22.9	11.3	16.7	9.5
8	Columbine Lodge	Grizzly Cr.	Colo.	Rbt. Ears Pass	21-5N-82W	9300	Routt	48.0	42.4	43.9	23.5	17.4	20.4
4	Headquarters Park	N. French Cr.	Wyo.	Cent/Saratoga	27-16N-80W	10100	Medicine Bow	76.8	77.3	---	35.2	23.4	---
37	North French Cr.	N. French Cr.	"	"	27-16N-80W	10200	"	---	---	83.8	---	---	37.1
38	N. Barreth Cr. #2	N. Barreth Cr.	"	"	30-16N-80W	9400	"	44.5	58.9	61.0	22.6	17.0	25.1

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				Locality	Description			Av. Snow Depth		Av. Water Content			
								1936	1937	1936	1937	1936	1937
								In.	In.	In.	In.		
NO. PLATTE RIVER													
9	Old Battle	Encampment Cr.	Wyo.	12mi. W. Encampment	29-14N-85W	9800	Medicine Bow	79.1	98.5	78.0	34.2	39.6	32.5
7	Park View	Illinois Cr.	Colo.	7mi. SE. Rand	24-5N-78W	9200	Routt	5.2	18.0	28.7	1.6	5.9	13.2
39	Ryan Park No. 2	Barrett Cr.	Wyo.	Cent./Saratoga	34-16N-81W	8400	Medicine Bow	8.2	29.1	22.1	3.1	7.1	9.3
8	Webber Spring	Encampment Cr.	"	10mi. W. Encampment	27-14N-85W	9000	"	56.3	65.6	44.9	25.7	26.6	19.8
1	Cameron Pass*	Michigan Cr.	Colo.	Cameron Pass	2-6N-76W	10300	Roosevelt	65.2	54.2	75.2	27.4	20.1	31.6
SWEETWATER RIVER													
29	Grannier Meadows	Rock Creek	Wyo.	20mi. SW. Lander	19-30N-100W	9000	Washakie	---	46.6	28.4	---	16.1	10.1
LARAMIE RIVER													
3	Brooklyn Lake	Nash Fork	Wyo.	7mi. NW. Centennial	11-16N-79W	10200	Medicine Bow	58.0	56.8	56.5	34.0	23.5	21.5
11	Fox Park	Fox Creek	"	Fox Park	21-13N-78W	9200	"	17.4	21.6	26.6	9.0	6.9	13.3
36	Hairpin Turn No. 2	Nash Fork	"	5mi. NW. Centennial	24-16N-79W	9500	"	30.6	34.0	27.8	13.5	12.4	8.7
35	Libby Lodge No. 2	Libby Cr.	"	3mi. NW. Centennial	29-16N-78W	8700	"	0.0	5.9	9.8	0.0	2.3	3.3
34	Pole Mountain No. 2	Soldier Cr.	"	10mi. SE. Laramie	35-15N-72W	8700	"	0.0	---	5.3	0.0	---	1.9
4	W. Port. C.-P. Tunnel	Laramie R.	Colo.	4mi. N. Chambers L.	7-8N-75W	8600	Roosevelt	4.8	13.6	25.1	1.9	4.2	8.7
50	Deadman Hill*	Deadman Cr.	"	10mi. W. R. Feather	26-10N-75W	10200	"	---	43.0	59.5	---	14.5	20.5
71	Deadman Hill No. 2*	Deadman Cr.	"	8mi. SW. R. Feather	6-9N-74W	10200	"	---	---	48.5	---	---	16.7
SOUTH PLATTE RIVER													
14	Hoosier Pass	S. Platte	Colo.	Hoosier Pass	13-8S-78W	11400	Pike	28.9	13.6	38.3	12.4	5.2	11.2
57	Jefferson Creek	Jefferson Cr.	"	4mi. NW. Jefferson	23-7S-76W	10050	"	---	0.0	1.1	---	0.0	0.1
15	Fairplay	S. Platte	"	Fairplay	33-9S-77W	10000	"	0.0	0.0	0.0	0.0	0.0	0.0
CROW CREEK													
34	Pole Mountain No. 2	Crow Creek	Wyo.	10mi. SE. Laramie	35-15N-72W	8700	Medicine Bow	0.0	---	5.3	0.0	---	1.9

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				Locality					Av. Snow Depth	1936	1937	1938	1936	1937
	ARKANSAS RIVER								In.	In.	In.	In.	In.	In.
73	Blue Lakes	Cuchara Cr.	Colo.	15mi. SW. LaVeta	30-31S-69W	10000	San Isabel				12.7			6.2
20	Four Mile Park	Lake Cr.	"	3mi. SW. Twin Lakes	23-11S-81W	9700	Cochetopa		0.0	0.0	0.0		0.0	0.0
17	Fremont Pass ^a	E. Fork Ark. R.	"	Fremont Pass	2-8S-79W	11300	Arapaho		36.5	32.7	54.9	16.5	9.4	20.3
74	LaVeta Pass #2*	Cuchara Cr.	"	LaVeta Pass	22-23S-70W	9300	San Cristo Gr.		0.0#	2.7#	1.0	0.0#	1.0#	0.5
42	Marshall Creek*	Poncha Cr.	"	Marshall Pass	24-48N-6E	10300	Cochetopa		20.3	21.1	33.3	8.3	7.3	12.8
43	Poncha Creek	Poncha Cr.	"	Marshall Pass	19-48N-7E	10500	"		5.9	8.8	28.2	2.6	3.1	10.3
19	Tennessee Pass	Tennessee Cr.	"	Tennessee Pass	21-8S-60W	10200	"		9.2	3.1	23.6	3.8	1.1	7.6
21	Twin Lakes Tun.	Lake Cr.	"	9mi. W. Twin Lakes	22-11S-82W	10500	"		22.0	16.8	28.6	8.3	4.9	11.0
48	Whiskey Creek	Whiskey Cr.	"	Whiskey Cr. Pass	31-32N-69W	10200	Maxwell Grant			10.2	5.6		4.2	1.9

*On adjacent drainage

#Readings on original course

(8704-38)

Reservoir Storage in Acre-feet, Colorado and Wyoming, as of May 1, for the Years 1929 to 1938, inclusive
(Based on data gathered by the State Engineer of Colorado and the U. S. Bureau of Reclamation)
A = Percentage of capacity. B = Percentage of 10-year average. Units in thousands of acre-feet.

Reservoir	Capacity Ac-ft	1929 Ac-ft	1930 Ac-ft	1931 Ac-ft	1932 Ac-ft	1933 Ac-ft	1934 Ac-ft	1935 Ac-ft	1936 Ac-ft	1937 Ac-ft	1938 Ac-ft	10-yr. Avg. Ac-ft	A %	B %
COLORADO														
Eleven Mile	81.9	--	--	--	--	--	--	--	4.8	16.4	27.4	--	34	--
Cheeseman	79.0	66.8	79.1	79.1	48.0	8.4	43.4	18.7	32.0	48.7	34.4	45.9	43	75
Marston	19.8	14.5	16.6	17.8	13.1	14.6	17.1	13.8	14.2	16.7	16.7	15.5	84	108
Barr	32.2	29.8	28.4	29.6	10.2	12.0	17.8	7.4	11.4	20.0	10.9	17.8	34	61
Milton	24.4	19.6	19.2	20.4	7.4	4.9	10.5	1.8	3.5	11.0	4.0	10.2	16	39
Riverside	57.5	55.7	50.4	54.8	41.8	12.8	46.7	12.7	44.1	47.0	30.7	39.7	53	77
Empire	37.7	35.9	33.5	34.4	27.1	22.2	24.7	0.0	18.6	24.7	23.0	24.4	61	94
Jackson Lake	35.4	34.5	34.5	35.0	33.5	33.2	33.4	31.7	31.2	33.4	33.2	33.4	94	99
Prewitt	32.8	27.9	27.0	25.5	21.8	9.8	23.2	4.2	12.0	19.2	9.7	18.0	30	54
Point of Rocks	65.0	62.2	49.2	53.0	22.2	29.4	60.0	30.1	56.8	64.3	38.0	46.5	58	82
Julesburg	28.2	21.8	22.6	22.8	22.6	29.3	21.9	22.8	22.0	20.9	22.9	22.1	81	104
Twin Lakes	57.9	18.7	20.4	13.5	5.9	5.9	6.6	13.8	14.5	14.4	7.2	12.1	12	59
Meredith	41.9	27.7	25.3	25.9	2.5	0.0	0.0	0.0	0.0	3.0*	0.0	8.4	0	0
Horse Creek	26.9	6.3	10.9	12.8	0.0	4.3	0.0	0.0	0.0	7.9	0.0	4.2	0	0
Adobe Creek	61.6	29.2	56.9	46.3	0.0	0.0	0.0	0.0	0.0	1.7	0.0	13.4	0	0
Model	17.8	8.9	9.7	14.4	6.4	0.0	2.7	0.0	2.6	1.8	3.0	5.0	17	60
Standley	18.5	13.6	17.1	13.1	3.4	1.4	0.0	2.8	13.4	15.8	11.5	9.2	62	125
Marshall	10.3	3.8	5.7	3.3	1.3	1.8	3.1	0.1	4.1	6.0	6.2	3.5	60	177
Loveland	14.3	1.5	11.0	8.9	0.8	0.0	2.1	0.7	3.0	1.0	1.0	3.0	7	33
Mariano	5.4	4.3	5.0	5.3	3.0	3.1	3.3	0.4	3.0	3.0	3.9	3.4	72	115
Union	12.7	7.5	8.8	9.1	3.0	0.6	4.1	0.0	2.9	7.5	3.1	4.7	24	66
Windsor Res.	18.6	13.6	16.9	12.7	7.9	4.2	11.8	2.8	11.2	10.5	11.6	10.3	62	113
Cache La Poudre	9.5	8.9	9.2	8.9	4.4	5.0	9.1	2.8	5.7	7.3	7.5	6.9	79	109
Fossil Creek	11.6	11.6	11.6	11.6	4.3	6.1	11.2	2.9	8.1	7.1	5.5	8.0	47	69
Terry	9.8	5.8	7.1	5.0	4.0	4.1	11.2	2.9	4.2	4.1	4.1	4.7	42	87
Halligan	6.4	5.0	6.4	5.3	2.0	1.6	4.4	4.1	4.2	4.1	4.9	3.7	77	132
Chambers Lake	6.8	2.9	6.2	3.0	2.0	2.3	2.0	0.7	2.8	2.4	3.1	2.9	46	107
WYOMING														
Pathfinder	1070.0	815.6	906.0	613.1	352.5	404.7	331.8	133.2	263.5	343.8	352.8	451.7	33	78
Guernsey	71.6	49.4	60.2	57.9	50.1	63.8	37.6	24.8**	44.7**	37.5**	52.5**	47.8	96	110
Jackson Lake	847.0	593.0	572.7	420.4	185.7	535.9	348.6	206.0	331.5	504.2	430.6	412.9	51	104

*Estimated. **Based on Capacity of 54,610 Acre-Feet

(8704-38)

